

# Notice of Allowability

Application No.

09/940,349

Examiner

Jorge L. Ortiz-Criado

Applicant(s)

TAKASAKA ET AL.

Art Unit

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## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 08/16/2006.
2. ☒ The allowed claim(s) is/are 1-3.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All b) ☐ Some\* c) ☐ None of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

## DETAILED ACTION

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jiawei Huang on 09/08/2006.

The application has been amended as follows:

In the specification:

In paragraph [0039]: the last two sentences shown underlined below, have been deleted.

Accordingly, the correction offset voltage is not affected by the switch of the gain  $G$  because the gain  $G$  is not in the correction offset voltage of the addition signal  $V_{osadd}$ . Namely, from equation (4), the correction offset signal, i.e., the correction offset voltage of the addition signal  $V_{osadd}$ , is independent to gain  $G$  of the amplifiers. Then, as shown in FIG. 3, the correction offset signal  $V_{osadd}$  with a fixed value is previously added to the inputs of the amplifiers 66A, 66B, 66C and 66D.

In paragraph [0042]: the last two sentences shown underlined below, have been deleted.

Accordingly, the correction offset voltage is not affected by the switch of the gain G because the gain G is not in the correction offset voltage of the subtraction signal V<sub>osub</sub>. Namely, from equation (4), the correction offset signal, i.e., the correction offset voltage of the subtraction signal V<sub>osub</sub>, is also independent to gain G of the amplifiers. Then, as shown in FIG 5, the correction offset signal V<sub>osub</sub> with a fixed value is previously added to the inputs of the amplifiers 66A, 66B, 66C and 66D.

*Allowable Subject Matter*

2. Claims 1-3 are allowed.

The following is an examiner's statement of reasons for allowance:

The prior art teaches an optical disc device for changing intensities of light beams illuminated on an optical disc when recording and reproducing on/from the optical disc, the optical disc device comprising: a photo detecting device divided into a plurality of photo detectors for detecting reflected light beams of the light beams illuminated on an optical disc; a plurality of amplifiers for changing gains to respectively amplify output signals of the photo detectors when recording and reproducing on/from the optical disc; and a calculating device for calculating output signals of the amplifiers to generate servo signals, wherein correcting offset

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voltages of the amplifiers and the photo detector are added and have a value determined by the offset voltages of the photo detector and the offset voltages of the amplifiers.

The prior art does not teach or fairly suggest along with the other elements of the claim, that said correction offset signals having a value determined by the offset voltages of the photo detector and the offset voltages of the amplifiers are added to the amplifiers, respectively, and are amplified by the amplifiers.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### *Conclusion*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jorge L. Ortiz-Criado whose telephone number is (571) 272-7624. The examiner can normally be reached on Mon.-Thu.(12:30 pm- 9:00 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrea L. Wellington can be reached on (571) 272-4483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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ANDREA WELLINGTON  
SUPERVISORY PATENT EXAMINER